The material in this bibliography has been helpful in the development of this document.

Abramowitz, M., and I.A. Stegun (eds.), *Handbook of Mathematical Functions*. New York: Dover. 1972.

Andrews, F.C., "Asymptotic Behavior of Some Rank Tests for Analysis of Variance," Annals of Mathematical Statistics, 25:724–736. 1954.

ANL/EAD/LD-2 (Argonne National Laboratory/Environmental Assessments Division). "Manual for Implementing Residual Radioactive Material Guidelines Using RESRAD, Version 5." Washington, D.C.: Department of Energy. 1993.

ANL/EAD/LD-3 (Argonne National Laboratory/Environmental Assessments Division).. "RESRAD-BUILD: A Computer Model for Analyzing the Radiological Doses Resulting From the Remediation and Occupancy of Buildings Contaminated With Radioactive Material." Washington, D.C.: Department of Energy. 1994.

ANSI/ASQC E-1994. "Specifications and Guidelines for Quality Systems for Environmental Data Collection and Environmental Technology Programs". Milwaukee, Wisconsin: American National Standards Institute/American Society for Quality Control. 1994.

BEIR (National Academy of Sciences/National Research Council Committee on the Biological Effects of Ionizing Radiations). *Health Effects of Exposure to Low Levels of Ionizing Radiation, BEIR V.* Washington, D.C.: National Academy Press. 1990.

Box, G.E.P., *Biometrika*, 40, 318–335, 1953.

Brownlee, K.A., *Statistical Theory and Methodology in Science and Engineering*. New York: Wiley. 1960.

Chen, L., "Testing the Mean of Skewed Distributions." *Journal of the American Statistical Association*. 90, 430, 767–772. 1995.

Christensen, R. *Linear Models for Multivariate, Time Series and Spatial Data*. New York: Springer. 1991.

Clark, I. *Practical Geostatistics*. New York: Elsevier. 1979. Conover, W.J. *Practical Nonparametric Statistics*, 2d edition. New York: Wiley. 1980 (2nd ed.)

Cox, F.M., and C.F. Guenther. "An Industry Survey of Current Lower Limits of Detection for Various Radionuclides," *Health Physics* 69(1):121–129. 1995.

Cressie, N.A.C. Statistics for Spatial Data. New York: Wiley. 1993.

16-1 NUREG-1505

Currie, L.A. "Limits for Qualitative Detection and Quantitative Determination," *Analytical Chemistry* 40(3): 586–693. 1968.

Diggle, P.J. Statistical Analysis of Spatial Point Patterns. San Diego, Cal.: Academic Press. 1983.

DOE/EM-0142PDOE. *Decommissioning Handbook*. Washington, D.C.: Department of Energy. March 1994.

DOE/RL-92-24. Hanford Site Soil Background. Richland, Wash.: Department of Energy. 1992.

DOE/RL-94-72. *Hanford Site Background Data Applications Guide: Part 1, Soil.* Washington, D.C.: Department of Energy. June 1994.

Eberhardt, K.R. "Survey Sampling Methods," Chapter 9 in H.M. Wadsworth (ed.), *Handbook of Statistical Methods for Scientists and Engineers*," p. 9.20. New York: McGraw-Hill. 1990.

Efron, B., and R.J. Tibshirani. *An Introduction to the Bootstrap*. New York: Chapman & Hall. 1993.

EPA QA/G-4. *Guidance for the Data Quality Objectives Process, Final.* Washington, D.C.:Environmental Protection Agency. 1994.

EPA QA/G-5. *Guidance on Quality Assurance Project Plans*. Washington, D.C.:Environmental Protection Agency. 1996.

EPA QA/G-9. *Guidance for Data Quality Assessment, QA96 Version.* Washington, D.C.: Environmental Protection Agency. July 1996.

EPA QA/G-9. *Guidance for Data Quality Assessment, External Working Draft*. Washington, D.C.: Environmental Protection Agency. March 27, 1995.

EPA QA/R-5. EPA Requirements for Quality Assurance Project Plans for Environmental Data Operations. Washington, D.C.:Environmental Protection Agency. 1994.

EPA 230-R-92-14. *Methods for Evaluating the Attainment of Cleanup Standards, Volume 2: Groundwater.* Washington, D.C.: Environmental Protection Agency, Statistical Policy Branch. 1992.

EPA 230-R-94-004. Statistical Methods for Evaluating the Attainment of Cleanup Standards, Volume 3: Reference Based Standards for Soils and Solid Media. Washington, D.C.: Environmental Protection Agency, Office of Policy, Planning, and Evaluation. 1994.

EPA PB92- 963373. Supplemental Guidance to Rags [Risk Assessment Guidance For Superfund]: Calculating the Concentration Term -- Washington, DC: Environmental Protection Agency, Office of Solid Waste and Emergency Response, 1992.

EPA 230/02-89-042. *Methods for Evaluating the Attainment of Cleanup Standards, Volume 1: Soils and Solid Media.* Washington, D.C.: Environmental Protection Agency, Statistical Policy Branch. 1989.

EPAv/S40/1-89/002. Risk Assessment Guidance for Superfund, Volume I: Human Health Evaluation Manual (Part A), Interim Final. Washington, D.C.: Environmental Protection Agency, Office of Emergency and Remedial Response. 1989.

EPA 540/G-87/003. *Data Quality Objectives for Remedial Response Activities: Development Process.* Washington, D.C.: Environmental Protection Agency. 1987.

EPA 520/1-80-012. *Upgrading Environmental Radiation Data*. Washington, D.C.: Environmental Protection Agency. August 1980.

EPA 540/G-87/004. Data Quality Objectives for Remedial Response Activities: Example Scenario RI/FS Activities at a Site With Contaminated Soils and Ground Water. Washington, D.C.: Environmental Protection Agency. 1987.

EPA 600/4-84-043. "Soil Sampling Quality Assurance User's Guide," 1st ed. Washington, D.C.: Environmental Protection Agency. 1984. EPA 600/4-90/013. *A Rationale for the Assessment of Errors in the Sampling of Soils*. Washington, D.C.: Environmental Protection Agency. 1990.

Federal Register, July 21, 1997. 62 FR 139, pp. 39057–39092.

Gilbert, R.O. *Statistical Methods for Environmental Pollution Monitoring*. New York: Van Nostrand Reinhold. 1987.

Hastings, C., Jr. *Approximations for Digital Computers*. Princeton, N.J.: Princeton University Press. 1955.

Hochberg, Y., and A.C. Tamhane. Multiple Comparison Procedures. New York: Wiley. 1987.

Johnson, R.A., S. Verrill, and D.H. Moore II. "Two-Sample Rank Tests for Detecting Changes That Occur in a Small Proportion of the Treated Population," *Biometrics* 43:641–655. 1987.

Land, C.E. "Hypothesis Tests and Interval Estimates" in E.L. Crow and K. Shimizu (eds.), *Lognormal Distributions: Theory and Practice*. New York: Marcel Dekker, Inc. 1988.

Lehmann, E.L., and H.J.M. D'Abrera. *Nonparametrics:Statistical Methods Based on Ranks*. San Francisco: Holden-Day, Inc. 1975.

Liggett, W. "Detecting Elevated Contamination by Comparisons With Background," pp. 119–128 in G.E. Schweitzer and J.A. Santoluctto (eds.), *Environmental Sampling for Hazardous Wastes*, ACS Symposium Series 267. Washington, D.C.: American Chemical Society. 1984.

Ling, R.F., and J.W. Pratt. "The Accuracy of Peizer Approximations to the Hypergeometric Distribution, With Comparisons to Some Other Approximations," *Journal of the American Statistical Association* 79 (385) 49–60. 1984.

Microsoft Excel for Windows, Version 5.0. Redmond, WA: Microsoft Corporation. 1993.

Neptune, O., E.P. Brantley, M.J. Messner, and D.I. Michael. "Quantitative Decision Making in Superfund: A Data Quality Objectives Case Study," *Hazardous Materials Control* 3(3):18–27. 1990.

Noether, G.E. "Sample Size Determination for Some Common Nonparametric Tests," *Journal of the American Statistical Association* 82:645–647. 1987.

Norton, R.M. "Pocket-Calculator Approximation for Areas Under the Standard Normal Curve," *American Statistician* 43:24–26. 1989.

Nuclear Regulatory Commission. "Draft Branch Technical Position on Site Characterization for Decommissioning." Washington, D.C. November 1994.

Nuclear Regulatory Commission. "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source, or Special Nuclear Materials." Washington, D.C. May 1987.

NUREG-0586. "Final Generic Environmental Impact Statement on Decommissioning of Nuclear Facilities." Washington, D.C.: Nuclear Regulatory Commission. 1988.

NUREG-1496 [a]. "Generic Environmental Impact Statement in Support of Rulemaking on Radiological Criteria for Decommissioning of NRC-Licensed Facilities," Volume 1— Main Report (Draft Report for Comment). Washington, D.C.: Nuclear Regulatory Commission. August 1994.

NUREG-1496 [b]. "Generic Environmental Impact Statement in Support of Rulemaking on Radiological Criteria for Decommissioning of NRC-Licensed Facilities," Volume 2—Appendices (Draft Report for Comment). Washington, D.C.: Nuclear Regulatory Commission. August 1994.

NUREG-1500. "Working Draft Regulatory Guide on Release Criteria for Decommissioning: NRC Staff's Draft for Comment." Washington, D.C.: Nuclear Regulatory Commission. August 1994.

NUREG-1501. "Background as a Residual Radioactivity Criterion for Decommissioning" (Draft Report). Washington, D.C.: Nuclear Regulatory Commission. August 1994.

NUREG-1505 Nuclear Regulatory Commission (NRC). 1997a. "A Nonparametric Statistical Methodology for the Design and Analysis of Final Status Decommissioning Surveys" (Draft Report for Comment). Washington, D.C.: Nuclear Regulatory Commission. August 1995.

NUREG-1506. "Measurement Methods for Radiological Surveys in Support of New Decommissioning Criteria" (Draft Report for Comment). Washington, D.C.: Nuclear Regulatory Commission. 1995.

NUREG/CR-1507. "Minimum Detectable Concentrations with Typical Radiation Survey Instruments for Various Contaminants and Field Conditions" (Draft Report for Comment). Washington, D.C.: Nuclear Regulatory Commission. 1995.

NUREG/CR-4007. "Lower Limit of Detection: Definition and Elaboration of a Proposed Position for Radiological Effluent and Environmental Measurements." Washington, D.C.: Nuclear Regulatory Commission, 1984.

NUREG/CR-5512. "Residual Radioactive Contamination From Decommissioning," Volume 1 (Draft). Washington, D.C.: Nuclear Regulatory Commission. January 1990.

NUREG/CR-5849. "Manual for Conducting Radiological Surveys in Support of License Termination." Washington, D.C.: Nuclear Regulatory Commission. June 1992.

ORNL/TM-12774. "ELIPGRID-PC: A PC Program for Calculating Hot Spot Probabilities." Grand Junction, Co.: Oak Ridge National Laboratory. 1994.

PNL-7409. "Statistical Methods for Evaluating the Attainment of Cleanup Standards," Volume 3: "Reference-Based Standards for Soils and Solid Media." Richland, Wash.: Pacific Northwest Laboratory. 1992.

PNL-8989. "Comparing Statistical Tests for Detecting Soil Contamination Greater Than Background." Richland, Wash.: Pacific Northwest Laboratory. 1993.

Regulatory Guide 1.86. "Termination of Operating Licenses for Nuclear Reactors." Washington, D.C.: Nuclear Regulatory Commission. June 1974.

Regulatory Guide 4.15. "Quality Assurance for Radiological Monitoring Programs — Effluent Streams and the Environment." Washington, D.C.: Nuclear Regulatory Commission. February 1979.

Ripley, B.D. Spatial Statistics. New York: Wiley. 1981.

Rohatgi, V.K. *An Introduction to Probability Theory and Mathematical Statistics*. New York: Wiley. 1976.

Ryti, R.T., and D. Neptune. "Planning Issues for Superfund Site Remediation." *Hazardous Materials Control* 4(6):47–53. 1991.

Scott, D.W. "On Optimal and Data-based Histograms," *Biometrika* 66, 605–610. 1979.

Singer, D.A. "ELIPGRID: A FORTRAN IV Program for Calculating the Probability of Success in Locating Elliptical Targets With Square, Rectangular and Hexagonal Grids," *Geocom Programs* 4:1–19. 1972.

Singer, D.A. "Relative Efficiencies of Square and Triangular Grids in the Search for Elliptically Shaped Resource Targets," *Journal of Research of the U.S. Geological Survey* 3(2):163–167. 1975.

Snedecor, G.W., and W.G. Cochran. *Sampling Techniques* (7th edition). New York: Wiley. 1980.

Sprent, P. *Applied Nonparametric Statistics*, 2d ed. New York: Chapman and Hall. 1993. 1993.

Spurrier, J.D. and J. E. Hewett. "Two-Stage Wilcoxon Tests of Hypotheses," *Journal of the American Statistical Association*, 71(356):982–987. 1976.

Taylor, J. K. Statistical Techniques for Data Analysis. Chelsea, Mich.: Lewis Publishers. 1990.

Title 10 ("Energy"), *Code of Federal Regulations*, Part 20 ("Standards for Protection Against Radiation."). U.S. Nuclear Regulatory Commission (updated periodically).

Title 10 ("Energy"), *Code of Federal Regulations*, Part 30 ("Rules of General Applicability to Domestic Licensing of Byproducts and Material."). U.S. Nuclear Regulatory Commission (updated periodically).

Title 10 ("Energy"), *Code of Federal Regulations*, Part 40 ("Domestic Licensing of Source Material."). U.S. Nuclear Regulatory Commission (updated periodically).

Title 10 ("Energy"), *Code of Federal Regulations*, Part 50 ("Domestic Licensing of Production and Utilization Facilities."). U.S. Nuclear Regulatory Commission (updated periodically).

Title 10 ("Energy"), *Code of Federal Regulations*, Part 70 ("Domestic Licensing of Special Nuclear Material."). U.S. Nuclear Regulatory Commission (updated periodically).

Title 10 ("Energy"), *Code of Federal Regulations*, Part 72 ("Licensing Requirements for the Independent Storage of Spent Nuclear Fuel and High-level Radioactive Waste"). U.S. Nuclear Regulatory Commission (updated periodically).

Thomson, G.W. Biometrika, 42, 268–269. 1955.

Upton, G., and B. Fingleton. Spatial Data Analysis by Example. New York: Wiley. 1985

Wadsworth, H.M. *Handbook of Statistical Methods for Scientists and Engineers*. New York: McGraw-Hill. 1990.

Zirschky, J., and R.O. Gilbert. "Detecting Hot Spots at Hazardous Waste Sites," *Chemical Engineering* 9:97–100. 1984.